## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## LISTING OF CLAIMS:

- (Original) An apparatus, comprising,
- a substrate having a planar surface

first and second electrodes located on said planar surface, said first electrode having a top surface and a lateral surface, said lateral surface having an edge near or in contact with said substrate; an electrode insulating layer located on said top surface;

a self-assembled layer located on said lateral surface; and

wherein said second electrode is in contact with both said self-assembled layer and said electrode insulating layer.

- 2. (Original) The apparatus of claim 1, wherein said self-assembled layer comprises a stack of at least two self-assembled layers.
- 3. (Original) The apparatus of Claim 2, wherein said stack of self-assembled layers comprises an end group of a first organic molecule in a first self-assembled layer chemically coupled to an end group of a second organic molecule in a second self-assembled layer.

- 4. (Original) The apparatus of Claim 3, wherein said coupling between said end groups of said first and second organic molecules includes a copper bridge.
- 5. (Original) The apparatus of Claim 1, wherein said self-assembled layer comprises non-conductive organic molecules.
- (Original) The apparatus of Claim 1, wherein said self-assembled layer comprises semiconductive organic molecules.
- 7. (Original) The apparatus of Claim 1, wherein said self-assembled layer is covalently bonded to said lateral surface.
- 8. (Original) The apparatus of Claim 1, wherein said self-assembled layer comprises a channel and said apparatus comprises an organic field effect transistor, wherein said channel has a charge mobility of at least about 1 x 10<sup>-3</sup> V<sup>-1</sup> s<sup>-1</sup>.
- 9. (Original) The apparatus of Claim 1, wherein a footprint of said electrode insulating layer is substantially aligned with said top surface.

Claims 10-20 (Canceled)